

**ABSTRACT**

In a method for designing a technical system, a technical system is modeled by a pre-determined quantity of target functions depending on parameters, each individual target function being weighted with a weighting factor. The method solves a system of equations comprising the parameters and the weighting factors as variables in a variable space, solutions of the system of equations forming working points of a solution space in the variable space. The working points are determined by a predictor-corrector method, according to which a predictor produced by a stochastic variable is determined in the variable space, from a first working point, and a second working point is then determined in a correcting step. The determined working points are used to design the technical system. The method can be used to redesign, modify or adapt an already existing technical system.